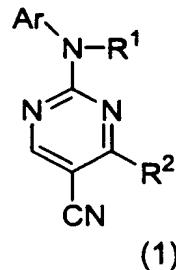


CLAIMS

1. A compound of formula (1):

5



(1)

wherein Ar is an optionally substituted aromatic or heteroaromatic group;  
R<sup>1</sup> is a hydrogen atom or a straight or branched chain alkyl group;  
R<sup>2</sup> is a -X<sup>1</sup>-R<sup>3</sup> group where X<sup>1</sup> is a direct bond or a linker atom or  
10 group, and R<sup>3</sup> is an optionally substituted aliphatic, cycloaliphatic,  
heteroaliphatic, heterocycloaliphatic, aromatic or heteroaromatic  
group;  
and the salts, solvates, hydrates and N-oxides thereof.

15 2. A compound according to Claim 1 wherein R<sup>1</sup> is a hydrogen atom.

3. A compound according to Claim 1 wherein R<sup>2</sup> is a group -X<sup>1</sup>R<sup>3</sup> in  
which X<sup>1</sup> is a direct bond.

20 4. A compound according to Claim 3 in which R<sup>3</sup> is an optionally  
substituted aromatic or heteroaromatic group, said heteroaromatic  
group containing one or two ring oxygen, sulphur and/or nitrogen  
atoms.

25 5. A compound according to Claim 4 wherein R<sup>3</sup> is a phenyl, thienyl,  
thiazolyl, indolyl or pyridyl group optionally substituted by one, two or

three  $-R^{4b}$  or  $-Alk(R^{4b})_m$  substituents in which  $R^{4b}$  is a halogen atom, or an amino ( $-NH_2$ ), substituted amino, nitro, cyano, hydroxyl ( $-OH$ ), substituted hydroxyl, formyl, carboxyl ( $-CO_2H$ ), esterified carboxyl, thiol ( $-SH$ ), substituted thiol,  $-COR^5$  [where  $R^5$  is a  $-Alk(R^4)_m$ , aryl or heteroaryl group],  $-CSR^5$ ,  $-SO_3H$ ,  $-SO_2R^5$ ,  $-SO_2NH_2$ ,  $-SO_2NHR^5$ ,  $-SO_2N[R^5]_2$ ,  $-CONH_2$ ,  $-CSNH_2$ ,  $-CONHR^5$ ,  $-CSNHR^5$ ,  $-CON[R^5]_2$ ,  $-CSN[R^5]_2$ ,  $-NHSO_2H$ ,  $-NHSO_2R^5$ ,  $-N[SO_2R^5]_2$ ,  $-NHSO_2NH_2$ ,  $-NHSO_2NHR^5$ ,  $-NHSO_2N[R^5]_2$ ,  $-NHCOR^5$ ,  $-NHCONH_2$ ,  $-NHCONHR^5$ ,  $-NHCON[R^5]_2$ ,  $-NHCSR^5$ ,  $-NHC(O)OR^5$ , or optionally substituted cycloaliphatic, hetero-cycloaliphatic, aryl or heteroaryl group; Alk is a straight or branched  $C_{1-6}$  alkylene,  $C_{2-6}$  alkenylene or  $C_{2-6}$  alkynylene chain, optionally interrupted by one, two or three  $-O-$  or  $-S-$  atoms or groups selected from  $-S(O)-$ ,  $-S(O)_2-$  or  $-N(R^6)-$  [where  $R^6$  is a hydrogen atom or a straight or branched chain  $C_{1-6}$  alkyl group]; and  $m$  is zero or an integer 1, 2 or 3.

6. A compound according to Claim 1 wherein Ar is a phenyl, pyridyl, indolyl, indazolyl, benzimidazolyl, benzothiazolyl, quinolyl, isoquinolyl or benzoxazolyl group each substituted by one, two or three  $-R^4$  or  $-Alk(R^4)_m$  substituents in which  $R^4$  is a halogen atom, or an amino ( $-NH_2$ ), substituted amino, nitro, cyano, hydroxyl ( $-OH$ ), substituted hydroxyl, formyl, carboxyl ( $-CO_2H$ ), esterified carboxyl, thiol ( $-SH$ ), substituted thiol,  $-COR^5$  [where  $R^5$  is a  $-Alk(R^4)_m$ , aryl or heteroaryl group],  $-CSR^5$ ,  $-SO_3H$ ,  $-SO_2R^5$ ,  $-SO_2NH_2$ ,  $-SO_2NHR^5$ ,  $-SO_2N[R^5]_2$ ,  $-CONH_2$ ,  $-CSNH_2$ ,  $-CONHR^5$ ,  $-CSNHR^5$ ,  $-CON[R^5]_2$ ,  $-CSN[R^5]_2$ ,  $-NHSO_2H$ ,  $-NHSO_2R^5$ ,  $-N[SO_2R^5]_2$ ,  $-NHSO_2NH_2$ ,  $-NHSO_2NHR^5$ ,  $-NHSO_2N[R^5]_2$ ,  $-NHCOR^5$ ,  $-NHCONH_2$ ,  $-NHCONHR^5$ ,  $-NHCON[R^5]_2$ ,  $-NHCSR^5$ ,  $-NHC(O)OR^5$ , or optionally substituted cycloaliphatic, hetero-cycloaliphatic, aryl or heteroaryl group; Alk is a

straight or branched  $C_{1-6}$  alkylene,  $C_{2-6}$  alkenylene or  $C_{2-6}$  alkynylene chain, optionally interrupted by one, two or three -O- or -S- atoms or groups selected from -S(O)-, -S(O)<sub>2</sub>- or -N(R<sup>6</sup>)- [where R<sup>6</sup> is a hydrogen atom or a straight or branched chain  $C_{1-6}$  alkyl group]; and

5 m is zero or an integer 1, 2 or 3.

7. A compound according to Claim 6 wherein Ar is a phenyl group substituted by one, two or three -R<sup>4</sup> or -Alk(R<sup>4</sup>)<sub>m</sub> substituents.

10 8. A compound according to any one of Claim 5 to Claim 7 wherein at least one of -R<sup>4</sup>, -Alk(R<sup>4</sup>)<sub>m</sub>, -R<sup>4b</sup> or -Alk(R<sup>4b</sup>)<sub>m</sub> is a -X<sup>1a</sup>(Alk<sup>a</sup>)<sub>p</sub>NR<sup>7a</sup>R<sup>7b</sup> (where X<sup>1a</sup> is a direct bond or a linker atom or group, Alk<sup>a</sup> is as defined for Alk, p is zero or an integer 1 and R<sup>7a</sup> and R<sup>7b</sup> which may be the same or different is each a hydrogen atom or a straight or branched  $C_{1-6}$ alkyl group), -X<sup>1a</sup>(Alk<sup>a</sup>)<sub>p</sub>NHet<sup>1</sup> (where -NHet<sup>1</sup> is an optionally substituted  $C_{3-7}$ cyclicamino group optionally containing one or more -O- or -S- atoms or -N(R<sup>6</sup>) [where R<sup>6</sup> is a hydrogen atom or a straight or branched chain  $C_{1-6}$ alkyl group]) or -X<sup>1a</sup>(Alk<sup>a</sup>)<sub>p</sub>Ar<sup>2</sup> group (where Ar<sup>2</sup> is a nitrogen containing heteroaromatic group).

15 20 9. A compound which is:  
5-Cyano-4-phenyl-N-(3,4,5-trimethoxyphenyl)pyrimidine-2-amine;  
5-Cyano-N-[4-(2-imidazol-1-ylethyl)phenyl]-4-(4-methoxcarbonyl-phenyl)pyrimidine-2-amine;

25 5-Cyano-4-(4-hydroxymethylphenyl)-N-(3,4,5-trimethoxyphenyl)-pyrimidine-2-amine;  
5-Cyano-4[(4-N,N-diethylaminomethyl)phenyl]-N-(3,4,5-trimethoxy-phenyl)pyrimidine-2-amine;  
5-Cyano-4-[2-(3(R)-dimethylaminopyrrolidin-1-yl)pyridin-5-yl]-N-

(indazol-5-yl)pyrimidine-2-amine;  
4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-(indazol-5-yl)-  
pyrimidine-2-amine;  
4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-(3,4,5-trimethoxy-  
5 phenyl)pyrimidine-2-amine;  
5-Cyano-N-[4-(2-N,N-diethylaminoethylaminocarboxy)phenyl]-4-  
phenylpyrimidine-2-amine;  
5-Cyano-4-phenyl-N-{4-[2-(2-ethylimidazol-1-yl)ethyl]phenyl}-pyrimidine-  
2-amine;  
10 4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-4(1,2,3-triazol-1-yl)-  
phenyl]pyrimidine-2-amine;  
4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-{4-[2-(2-ethylimidazol-1-  
yl)ethyl]phenyl}pyrimidine-2-amine;  
N-[3-(5-Cyano-4-thiophen-2-ylpyrimidin-2-ylamino)phenyl]-4-(4-  
15 methylpiperazin-1-ylmethyl)benzamide;  
4-[3-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-{4-[2-(2-methyl-imidazol-  
1-yl)ethyl]phenyl}pyrimidine-2-amino;  
5-Cyano-4-[4-(imidazol-1-yl)methyl]phenyl-N-(3,4,5-trimethoxy-phenyl)-  
pyrimidine-2-amino;  
20 and the salts, solvates, hydrates and N-oxides thereof.

10. A compound which is:

4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-[4(1,2,4-triazol-1-  
yl)phenyl]pyrimidine-2-amine;

25 5-Cyano-N-[4-(1,2,4-triazol-1-yl)phenyl]-4-[4-(1-dimethylamino-1-methyl-  
ethyl)phenyl] pyrimidine-2-amine;  
4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-(4-fluorophenyl)-  
pyrimidine-2-amine;  
4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-{4-[2-piperidin-1-

ylethyl]phenyl}pyrimidine-2-amine;

4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-[4-(2-imidazol-1-ylethyl)phenyl]pyrimidine-2-amine;

4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-[4-(2-morpholinoethyl)phenyl]pyrimidine-2-amine;

5 4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-[3-(2-morpholinoethyl)phenyl]pyrimidine-2-amine;

5-Cyano-4-[4-(1-methyl-1-pyrrolidin-1-ylethyl)phenyl]-N-(4-fluorophenyl)pyrimidine-2-amine;

10 5-Cyano-4-{2-([2-(diethylamino)ethyl]amino)pyridin-5-yl}-N-(4-fluorophenyl) pyrimidine-2-amine;

4-[4-(1-Amino-1-methylethyl)phenyl]-5-cyano-N-(3-fluorophenyl)pyrimidine-2-amine;

and the salts, solvates, hydrates and N-oxides thereof.

15 11. A pharmaceutical composition comprising a compound according to Claim 1 together with one or more pharmaceutically acceptable carriers, excipients or diluents